

G130/G131 Product Support Guide

Introduction

Launch Date: 7/15/2005

S/N Configuration: Q37xxxxxxxxx/ Q38xxxxxxxxx

Product Code: G130/G131

Savin CLP128/CLP135
Ricoh Aficio CL7200/C7300
Lanier LP332c/LP335c
Gestetner C7528n/C7535hdn

Training Information:

All support technicians previously certified via the G080 series instructor-led training program, or the G080 series self-pace training program, are *automatically certified* on the G130/G131 product after a complete and thorough review of the update package.

Description	EDP Code
Service Update Package	002372MIU
Service Manual	002373MIU
Parts Catalog	002447MIU

Technicians not certified on the above models can be trained on the G080 by first completing the existing *G060 Self-Pace Training Program* (001186MIU), and then by completing the *G080 Self-Pace Update Computer-Based Training Program*.

NOTE: In addition to the above method of certification, Service Education will offer an instructor-led B202 series training course, which will cover all models in the series, including, G060/G080/G570/G082/G106/G130/G131/B147/B149/B202/B178/B180.

Product Concept:

Flagship color laser printer expanding on the existing JP engine and providing a lower CPP. Engine/Controller Enhancements include new polymerized toner, faster controller and new controller options for improved productivity

Print Speed:

G130 FC 28ppm, BW 32ppm

G131 FC 35ppm, BW 35ppm



G130/G131 Product Support Guide

EDP Order Numbers

Model Name	EDP Code	Lanier ID	Product
Paper Feed Unit Type 7300 (500x1)	402431	481-0943	G567
Paper Feed Unit Type 7300 (500x2)	402432	481-0944	G568
Paper Bank Type 7300 (LCT)	402433	481-0945	G569
Stand FAC28	402373	481-0878	FAC28
SR960 (Two Tray Finisher)	412139	216-1218	G599
Punch Kit Type 1045 (2 Tray Finisher)	410785	481-0319	B377
SP 950 (Booklet Finisher)	412143	216-1219	B602
Punch Kit Type 2238	411585	216-7062	B647
User Account Enhance Unit Type E	402270	481-0877	G395
Memory Unit Type C 64MB	001345MIU	481-0518	G330
Memory Unit Type C 128MB	001347MIU	481-0519	G331
Memory Unit Type C 256MB	001348MIU	481-0520	G332
1394 Interface Unit Type B	411264	481-0683	B581
802.11b Interface Unit Type H	402378	481-0907	B813
IEEE 1284 Type A	411699	481-0786	B679
Bluetooth Unit Type 3245	412178	216-7092	G736
USB Host Interface Unit Type 7300	402304	481-0894	G819
Direct Camera Printing utilizing a PictBridge™ enabled camera. Interface Unit Type 7300	402361	481-0895	G814

G130/G131 Product Support Guide

Pre-Configured Models

G130

Brand	Model	Description	Lanier ID #	EDP
Ricoh	Aficio CL7200	Aficio CL7200	-	402410
Savin	CLP128	CLP128	-	402391
Gestetner	C7528n	C7528n	-	402391
Lanier	LP332c	LP332c	479-1575	-

Brand	Model	Description	EDP
Ricoh	Aficio CL7200D	Aficio CL7200 with Duplex	402411
Savin	CLP128	CLP128 with Duplex	402392
Gestetner	C7528n D	C7528n with Duplex	402392
Lanier	LP332c D	LP332c with Duplex	479-1576

Brand	Model	Description	EDP
Ricoh	Aficio CL7200DT1	CL7200 with Duplex & PFU (1)	402412
Savin	CLP128 DT1	CLP128 with Duplex & PFU (1)	402293
Gestetner	C7528n DT1	C7528n with Duplex & PFU (1)	402293
Lanier	LP332c DT1	LP332c with Duplex & PFU (1)	479-1577

Brand	Model	Description	EDP
Ricoh	Aficio CL7200DT2	CL7200 with Duplex & PFU (2)	402413
Savin	CLP128 DT2	CLP128 with Duplex & PFU (2)	N/A
Gestetner	C7528n DT2	C7528n with Duplex & PFU (2)	N/A
Lanier	LP332c DT2	LP332c with Duplex & PFU (2)	N/A

Brand	Model	Description	EDP
Ricoh	Aficio CL7200DL	CL7200 with Duplex & LCT	402414
Savin	CLP128 DL	NA with Duplex & LCT	N/A
Gestetner	C7528n DL	LP332c with Duplex & LCT	N/A
Lanier	LP332c DL	LP332c with Duplex & LCT	N/A

N/A – Pre-configured unit will not be offered. Options must be ordered separately.

G130/G131 Product Support Guide

G131

Brand	Model	Description	Lanier ID #	EDP
Ricoh	Aficio CL7300 D	Aficio CL7300 with Duplex	-	402415
Savin	CLP135 D	CLP135 with Duplex	-	402397
Gestetner	C7535n D	C7535n with Duplex	-	402397
Lanier	LP335c D	LP335c with Duplex	479-1578	-

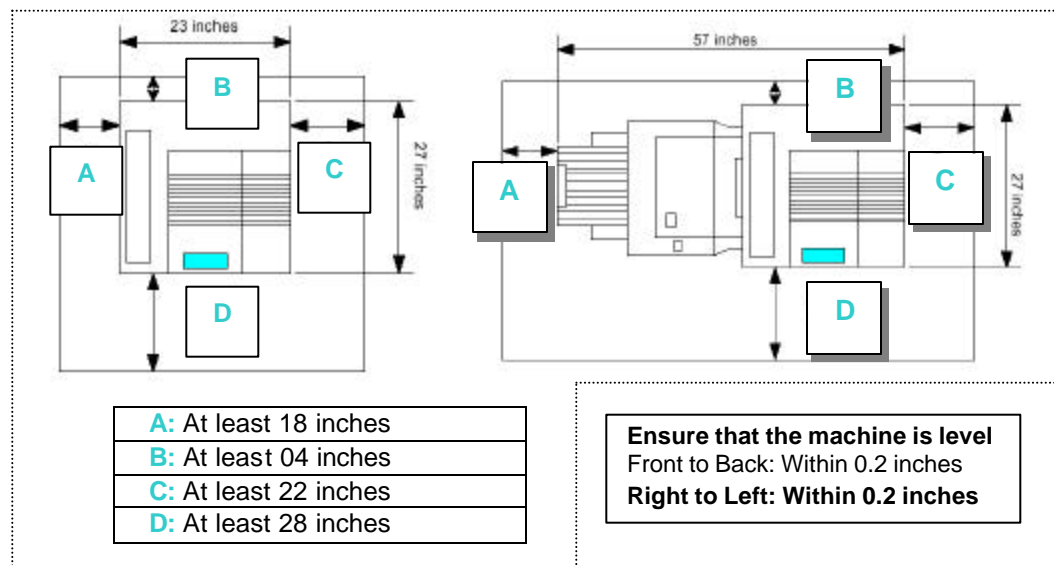
Brand	Model	Description	EDP
Ricoh	Aficio CL7300 DT1	CL7300 with Duplex & PFU (1)	402416
Savin	CLP135 DT1	CLP135 with Duplex & PFU (1)	402398
Gestetner	C7535n DT1	DSc38U with Duplex & PFU (1)	402398
Lanier	LP335c DT1	LP335c with Duplex & PFU (1)	479-1579

Brand	Model	Description	EDP
Ricoh	Aficio CL7300 DT2	CL7300 with Duplex & PFU (2)	402417
Savin	CLP135 DT2	CLP135 with Duplex & PFU (2)	N/A
Gestetner	C7535n DT2	C7535n with Duplex & PFU (2)	N/A
Lanier	LP335c DT2	LP335c with Duplex & PFU (2)	N/A

Brand	Model	Description	EDP
Ricoh	Aficio CL7300 DL	CL7300 with Duplex & LCT	402418
Savin	CLP135 DL	CLP135 with Duplex & LCT	N/A
Gestetner	C7535n DL	C7535n with Duplex & LCT	N/A
Lanier	LP335c DL	LP335c with Duplex & LCT	N/A

N/A – Pre-configured units will not be offered. Options must be ordered separately

G130/131 - Machine Space Requirements



G130/G131 Product Support Guide

Installation Requirements

1. Temperature Range: 10°C to 32°C (50°F to 89.6°F)
2. Humidity Range: 15% to 80% RH
3. Ambient Illumination: Less than 2,000 lux (do not expose to direct sunlight)
4. Ventilation: 3 times/hour/person or more
5. Do not expose the machine to the following:
 - 1) Direct cool air from an air conditioner
 - 2) Direct heat from a heater
6. Do not install the machine in areas that get exposed to corrosive gas.
7. Install the machine locations lower than 2,500 m (8,200 ft.) above sea level.
8. Install the machine on a strong, level base.
9. Do not install the machine in areas that get strong vibrations.

Machine level

Front to back: **Within 5 mm (0.2")**

Right to left: **Within 5 mm (0.2")**

Power Requirements

- Input voltage level: 120 V, 60 Hz: More than 11A (G130) / 12A (G131)
- Permissible voltage fluctuation: $\pm 10\%$
- Do not place anything on the power cord
- The required wall outlet is a NEMA 5-15R



CAUTION: Make sure the outlet and the machine are grounded.

CAUTION: Insert the plug firmly into the outlet.

CAUTION: Avoid using an extension cord or adapter plug.

Installation Times

Mainframe: **30 minutes**

Peripherals:

Peripherals, which can be installed by users:

PFU/LCT	15 minutes
Duplex Unit	15 minutes
IEEE1284	5 minutes
IEEE1394	5 minutes
Blue tooth	5 minutes
Wireless LAN	5 minutes
USB Host I/F	5 minutes
Direct Camera Printing	5 minutes
Gigabit Ethernet	5 minutes

Peripherals, which should be installed by technicians:

Finishers	15 minutes
Punch Kit	15 minutes

NOTE:

These are installation times for after the machine has been removed from the carton.

G130/G131 Product Support Guide

Utility Software

Software	Description
Font Manager (Win95/98/ME, NT4, 2000, XP, Server 2003):	<ul style="list-style-type: none"> The Font Manager 2000 installs the screen fonts in your Windows 95/98/Me/NT 4.0/2000/XP/Server 2003. Installing the screen fonts for the printer fonts improves the WYSIWYG quality.
Smart Device Monitor for Admin:	<ul style="list-style-type: none"> A utility for administrators who need to manage and monitor printers over the network. The Smart Device Monitor for Admin for Windows 95/98/Me/NT 4.0/2000/XP/Server 2003 Setup utilities are also available. Our device monitoring software has been renamed from Smart Net Monitor to Smart Device Monitor. Operation of Smart Device Monitor is the same as SmartNetMonitor. In case you already have SmartNetMonitor installed in your PC overwrite it with Smart Device Monitor, software settings and log data will be carried over.
Smart Net Monitor for Client (Win95/98/ME, NT4, 2000, XP, Server 2003)	<ul style="list-style-type: none"> A utility enables you to access networked printers to print, to monitor and to receive notices without a server. This utility also enables the following features: Recovery Printing Parallel Printing Our device monitoring software has been renamed from SmartNetMonitor to SmartDeviceMonitor. Operation of Smart Device Monitor is the same as Smart Device Monitor. In case you already have SmartNetMonitor installed in your PC overwrite it with Smart Device Monitor, software settings and log data will be carried over.
Device Graphic Update Module	<ul style="list-style-type: none"> Device Graphic Update Module provides bitmap images used to represent the various statuses of devices graphically within Smart Device Monitor or Web Smart Device Monitor.
DeskTop Binder	<ul style="list-style-type: none"> DTB enables you to connect a client computer to an I/O device. You can efficiently input, edit, and output the data on your computer.
Printer Utility for Mac	<ul style="list-style-type: none"> This is a utility for Macintosh that provides access to several network printing administrative features.
PS Descriptions	<ul style="list-style-type: none"> PDD for Mac By interacting with the Adobe PostScript 3 controller in the device, this PPD is able to produce an accurate representation of the screen image.
IEEE 1394 Printer Removal Utility	<ul style="list-style-type: none"> This utility completely removes all printers connected via IEEE 1394 interface from your Windows 2000/XP/Server 2003 system. This will prepare your Windows 2000/XP/Server 2003 system for the proper reinstallation of IEEE 1394 printers.
PPD Installer	<ul style="list-style-type: none"> This PPD installer is used to install a PPD (Postscript Printer Description) file on Mac OSX. PPD files contain descriptions of printer capabilities such as paper sizes, number of input trays and duplexing. Once the PPD file is installed on the system using the PPD installer, the PS driver that comes bundled with Mac OS X can use the information in the PPD to control the print device and enable full functionality. Please see the ReadMe file for information about compatibility with versions of Mac OS X.
LAN FAX Driver	<ul style="list-style-type: none"> This software enables you to fax documents directly from your computer. The Address Book Editor and Cover Sheet Editor are installed as well. This software requires the optional fax unit to be installed on the machine.
RPCS Driver	<ul style="list-style-type: none"> The RPCS printer drivers provide high productivity and simple

G130/G131 Product Support Guide

Software	Description
	operation.
PCL 6 Driver	<ul style="list-style-type: none"> The PCL 6 printer drivers provide faster printing and better what-you-see-is-what-you-get (WYSIWYG) than PCL 5c drivers.
PCL 5c Driver	<ul style="list-style-type: none"> The PCL 5c printer drivers are the recommended printer drivers for this printer. The PCL 5c printer drivers are recommended for users who need compatibility with PCL 5c printer.
Post Script Driver	<ul style="list-style-type: none"> The PostScript printer drivers generate PostScript commands.
USB Print	<ul style="list-style-type: none"> The USB Printing Support provides the solution for USB printing under Windows 98SE/Me. Windows will prompt for these support modules after it recognizes the printer on an USB port for the first time.
ICM Profiles	<ul style="list-style-type: none"> The ICM profiles work under Windows 98/Me/2000/XP/Server2003.
Network TWAIN Driver	<ul style="list-style-type: none"> TWAIN scanner driver for network connections.
Microsoft Windows NT 4.0 Terminal Server Edition PCL 5c Driver	<ul style="list-style-type: none"> Printer driver for color printing in Windows. It supports HP PCL 5c commands. Basically, this is the same driver as PCL5e with color printing functionality added.
Microsoft Windows NT 4.0 Terminal Server Edition PS Driver	<ul style="list-style-type: none"> By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.
Microsoft Windows 2000 Terminal Services PCL 5c	<ul style="list-style-type: none"> Printer driver for color printing in Windows. It supports HP PCL 5c commands. Basically, this is the same driver as PCL5e with color printing functionality added.
Microsoft Windows 2000 Terminal Services	<ul style="list-style-type: none"> By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.

Supplies and Maintenance Kits

	EDP Codes				
	Ricoh	Savin	Gestetner	Lanier	Lanier ID
Toner Type 160 Black	888442	888450	888454	Black toner for LP332c/LP335c	480-0295
Toner Type 160 Cyan	888445	888453	888457	Cyan toner for LP332c/LP335c	480-0298
Toner Type 160 Magenta	885374	888452	888456	Magenta toner for LP332c/LP335c	480-0297
Toner Type 160 Yellow	888443	888451	888455	Yellow toner for LP332c/LP335c	480-0298
Staple Cartridge	410801	410803	410805	-	480-0062
Staple Refill	410802	410804	410806	-	480-0063
Staple (Set + Refill) Booklet	411730	411733	411731	-	480-0215

NOTE: Toner is not compatible with previous models.

G130/G131 Product Support Guide

Yield	Name	EDP	Lanier ID	Description	Compatibility
40KP	Printer Maintenance Kit Type 7200/7300A	402305	481-0896	Color PCU's (CMY)	G130/G131 only
80KP	Printer Maintenance Kit Type 7200/7300B	402306	481-0897	Color Development Units (CMY)	G130/G131 only
* 80KP	Printer Maintenance Kit Type 7200/7300C	402307	481-0898	Fusing Unit	G130/G131 only
80KP	Printer Maintenance Kit Type 7200/7300 D	402308	481-0899	Black Development Unit	G130/G131 only
40KP	Printer Maintenance Kit Type 3800E	400662	481-0347	Waste toner bottle	G130, G106, G080 and G060
40KP	Printer Maintenance Kit Type 7200/7300 F	402310	481-0900	Black PCU	G130/G131 only
* 150KP	Printer Maintenance Kit Type 3800 H	400576	481-0423	Feed Roller	G106 and G080

* 50% Color ratio

The indicated Yields are based on:

- 1) A4 (8.5"x11")/ 5% Chart is used to measure the above yield.
- 2) 3 prints per job
- 3) The condition is standard temperature and humidity.
- 4) This yield number may change depending on the circumstances and printing conditions.
- 5) 5% image coverage ratio

The expected yield differs depending on the maintenance units. Also, each maintenance unit has its own counter to detect the near end or end condition. The yield is counted up by using machine operation time. Therefore, the number of prints differs depending on operation factors such as paper size and prints per job (P/J).

Supported Paper Weight Specifications

Paper trays:	16 lb. Bond to 28 lb. Bond (60 to 105g/m ²)
Bypass Tray:	16 lb. Bond to 43 lb. Bond (60 to 163g/m ²)
Optional Paper Trays	16 lb. Bond to 28 lb. Bond (60 to 105g/m ²)

Recommended Paper

TBA

G130/G131 Product Support Guide

Recommended Printer Driver Settings for Paper Types

Paper Type Used	Driver Setting – G130/131
Normal Thick Paper	Thick
Labels	Thick
Card Stock	Thick
Envelope	Thick
28 lb. Plain Paper	Plain Do not select "Special".
Transparency	OHP Transparency

Other paper types (color, preprinted, recycled and letterhead) at the printer driver cannot be interpreted to change the machine settings according to the type of paper selected. They are used only to lock the paper tray and to prevent designated papers from being automatically selected.

Additional Comments

Ricoh has tested the above papers. However, **Ricoh recommends that end users test any paper before purchasing large quantities.** The print quality may differ according to the temperature, humidity and printing applications in which the paper is used. In addition, paper specifications or methods of manufacturing are subject to change, over which Ricoh has no control.

When using special paper: Feed from the bypass tray, and select the proper paper type from the printer driver. Whenever printing from the bypass tray, the paper will be fed out to the face-up external tray. Printing numerous sheets of special paper in a short amount of time may create some printing problems. Exclusive printing of special paper may result in more frequent service calls, and may significantly reduce the maximum yield of maintenance kits. Ricoh's reliability data assumes only occasional use of special paper.

Paper Not Recommended for this Printer

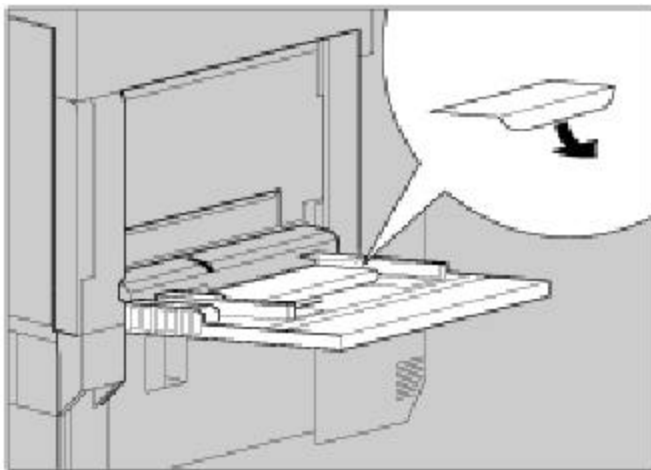
- Paper meant for an inkjet printer
- Bent, folded or creased paper
- Curled or twisted paper
- Torn paper
- Wrinkled paper
- Damp paper
- Paper that is dry enough to emit static electricity
- Special paper, such as thermal paper, aluminum foil, carbon paper and conductive paper
- Paper weight with heavier or lighter specifications than recommended
- Paper or envelopes with windows, holes, perforations, cutouts or embossing
- Label paper on which glue or base paper is exposed
- Paper with clips or staples
- Chrome Coat Paper
- Paper that has already been printed onto, except a preprinted letterhead.

G130/G131 Product Support Guide

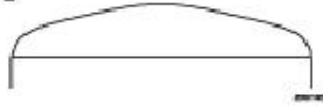


Appendix. Printing Envelopes

Check the print side is facing up.

- Check there is no air in the envelopes before loading.
- For better print quality, we recommend the right, left, top, and bottom print margins to be at least 15 mm (0.6") each.
- Load only one size and type of envelope at a time.
- When loading envelopes, be sure to unfold the flaps and position them opposite to the paper feed direction.
- Before loading envelopes, flatten their leading edges (the edge going into the printer) by running a pencil or ruler across them.
- Some kinds of envelope might cause misfeeds, wrinkles or print poorly.
- Print quality on envelopes may be uneven if parts of an envelope have differing thicknesses. Print one or two envelopes to check print quality.



Note: Only envelope type 1 and 2 are supported

① 	Supported ¹
② 	Supported ¹
③ 	Not supported

Misfeeds might also occur when using envelopes 1 and 2 depending on the length and shape of the flaps.

G130/G131 Product Support Guide

Printing Envelopes (Cont.)

Paper thickness 72 - 90 g/m² (19 - 24 lb.)

Recommended weight and size

- Inch version
24 lb, Com 10

Note: Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Printing on both-sides is **not** possible

Do not place envelopes of differing sizes at the same time.

You can place envelopes in short-edge feeding orientation, but this might result in creasing.

Printer Driver Settings

In the [Paper source tray] list, click [Bypass tray], and then in the [Paper type] list, click [Thick].
To set the print size, in the [Original size] list, click [Com10 Env.] or [Monarch Env.], and then in the [Printout paper size] list, click [Same as original size].

Limitations

- Surface bumps may occur around stuck-down and overlapping areas.
- Print positioning is easier with Com10 type envelopes than with the Monarch type.
- If envelopes are bent or creased and do not feed in smoothly, paper jams may occur.
- No more than 10 envelopes should be placed on the bypass tray at a time.
- Envelopes should be printed under the normal temperature and humidity.

G130/G131 Product Support Guide

Service Maintenance Table

Unique/Common

U: Unique for this model

C: Common with listed model

Part Number	Description	Q'ty/ Unit	Expected Yield (Prints)	Unique or Common
B1803810	Transfer Unit (Note 1)	1	1,000k	C (B147/B149)
B2423830	Transfer Cleaning Unit (Note 1)	1	250k	C (B147/B149)
AF031049	Feed Roller (Note 2)	2	150k	C (B135/B138 series)
AF030049	Pick-up Roller (Note 2)	2	150k	C (B135/B138 series)
AF032049	Separation Roller (Note 2)	2	150k	C (B135/B138 series)
AF031046	Bypass Feed Roller (Note 2)	1	150k	C (B147/B149 series)
AF030049	Bypass Pick-up Roller (Note 2)	1	150k	C (B147/B149 series)
AF032046	Bypass Separation Roller (Note 2)	1	150k	C (B147/B149 series)

1-Tray Paper Feed Unit: G567

Part Number	Description	Q'ty /Unit	Expected Yield (Prints)	Unique or Common
AF031049	Feed Roller (Note 2)	1	150k	C (B135/B138 series)
AF030049	Pick-up Roller (Note 2)	1	150k	C (B135/B138 series)
AF032049	Separation Roller (Note 2)	1	150k	C (B135/B138 series)

2-Tray Paper Feed Unit: G568

Part Number	Description	Q'ty /Unit	Expected Yield (Prints)	Unique or Common
AF031049	Feed Roller (Note 2)	2	150k	C (B135/B138 series)
AF030049	Pick-up Roller (Note 2)	2	150k	C (B135/B138 series)
AF032049	Separation Roller (Note 2)	2	150k	C (B135/B138 series)

Large Capacity Tray: G569

Part Number	Description	Q'ty /Unit	Expected Yield (Prints)	Unique or Common
AF031049	Feed Roller (Note 2)	1	150k	C (B135/B138 series)
AF030049	Pick-up Roller (Note 2)	1	150k	C (B135/B138 series)
AF032049	Separation Roller (Note 2)	1	150k	C (B135/B138 series)

NOTE 1: These units are considered EM parts since their expected lifetimes are relatively long, and because the actual roller lifetime depends on specific machine operations performed and type of paper used..

NOTE 2: The actual lifetime of the rollers depends on the type of paper used and machine operation. Therefore, the paper feed rollers are treated as EM parts.

G130/G131 Product Support Guide

PM Unit Yield

The yield of the development units, PCUs, fusing unit is affected by the number of print / job (P/J). This is because the actual life of them is determined how many times each unit rotates, as shown in the following table.

PM unit	Expected Yield (prints) 3P/J	Yield Target	
		Number of Rotations	Number of Prints
Black PCU	40K	280k	40K
Color PCU	40K	280k	40K
Black Development	80K	860k	80K
Color Development Unit	80k	870K	80k
Fusing Unit	80k	8190k	80k

The number of rotation per page depends on the P/J. If the P/J is lower than “3”, the number of rotations made for a page increases because the machine always stops a specific time after the last sheet is fed out regardless of the P/J condition.

The following table shows the expected number of prints made depending on the P/J. It also shows the expected yield at 1P/J, and 2P/J as a percentage when the percentage for 3P/J is 100%.

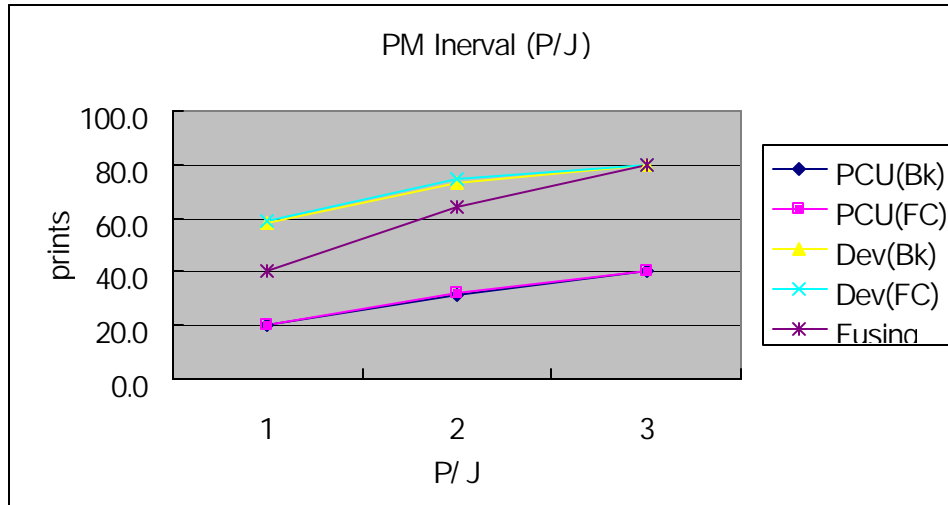
G130/G131

Maintenance Kit	Number of Prints (%)		
	1P/J	2P/J	3P/J
Black PCU	19.8 (49.5%)	31.7 (79.2%)	40 (100%)
Color PCU	19.8 (49.5%)	31.8 (79.6%)	40 (100%)
Black Development	58.3 (72.9%)	73.3 (91.6%)	80 (100%)
Color Development Unit	58.8 (73.5%)	74.6 (93.2%)	80 (100%)
Fusing Unit	40.5 (50.6%)	64.4 (80.5%)	80 (100%)

G130/G131 Product Support Guide

The diagram on the below is a graph made from the data in the above table.

As explained on the previous page, the yield of the PM parts depends on the number of rotations for a page. (This system for assessing yield is common in the printer field.) The expected yield of all PM parts is calculated under a specific condition (3P/J, A4/LT long-edge feed, and 5% image coverage ratio). P/J particularly affects the unit yield.

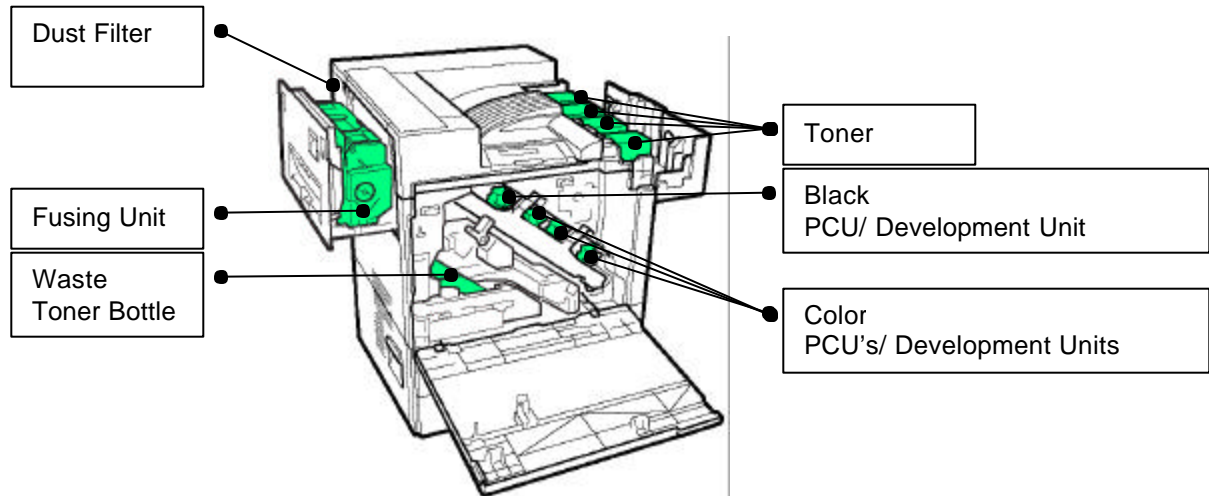


Note: Machine works for making patterns in process control self-check and lines position adjustment (MUSIC) or performs idling when turning on the main switch. While the machine is in these modes (self-check, MUSIC, and idling), the yield counter (rotation counter) of maintenance kits counts up without making outputs. Performing self-check, MUSIC or power OFF/ON of machine excessively affects the unit yield.

If making a meter charge contract with customers and if the meter charge fee is always the same for all users, this may cause a reduction in profits depending on how a customer makes prints. Therefore, it is recommended to consider the expected P/J and print volume for each user when making a service contract.

G130/G131 Product Support Guide

Maintenance Kit / Supply Locations



User Maintenance Table

Main Unit

Item	Prints or Developments	30K	40K	80K	150K	Remarks
Black PCU	Prints		R			Included in maintenance kit F
Color (Y/M/C) PCU	Prints		R			Included in maintenance kit A
Black Development Unit	Prints			R		Included in maintenance kit D
Color (C/M/Y) Development Unit	Prints			R		Included in maintenance kit B
Fusing Unit	Prints			R		Included in maintenance kit C
Waste Toner Bottle			R			Included in maintenance kit E
Dust Filter	Prints			R		Included in maintenance kit D

Punch Kit

Item		10K				Remarks
Chads	Prints	I				Discard chads

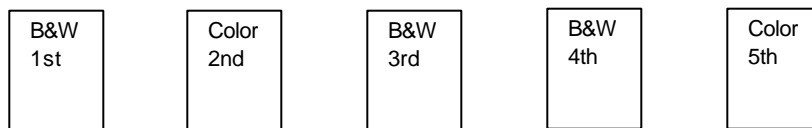
**NOTE: The replacement timings are based on:
8.5 x 11 LEF, 5% image coverage / color, 5 P/J and 50% color usage.**

G130/G131 Product Support Guide

Auto Color Selection (ACS) and Total Counters

B&W pages after a color page has been printed are counted as B&W for B&W and color mixed originals in ACS even if Meter Charge mode (SP5-930-001) is on or off.

After the transfer unit has moved into contact with all the color PCUs to print a color page, the transfer unit does not detach from the color PCUs during a print job even for B&W page printing. For instance, if sending 10 sets of 5 pages as one job and only the 2nd page contains color, the transfer belt unit moves into contact with all the color PCUs for the 2nd page of 1st set. Then it stays in contact with all the PCUs until all 50 pages have been printed.



When you send the above print job, the machine counts as shown in the following table.

SP Number	Type of counter	Counter
SP8-581-004	D: Color	6
SP8-581-005	D: B&W	5
SP8-581-008	P: Color	2
SP8-581-009	P: B&W	3

D: Developments (Color = CMY PCUs, B&W = K PCU)

C: Copies

The counters count up in the manner explained above, in order to reflect the number of color and black/white outputs accurately. This means that, while printing B&W pages after a color page has been printed, the color counters do not count up even when the color PCUs and development units rotate, so the usage of the various PCUs is not reflected accurately.

G130/G131 Product Support Guide

Initial Recommended Service Parts

Items in Red = PM

Part	Description	Part	Description
G1312211	PCU - CMY	AE040042	Oil Supply Roller:Pressure:DIA16
G2600152	Development Section:Service:JP -4:M	AE044066	Stripper Pawls:pFa
G2600153	Development Section:Service:JP -4:Y	AE044050	Stripper Pawl
G2600151	Development Section:Service:JP -4:C	B1804101	Fusing Belt:MM60:Ass'y
B1803780	Transfer Belt: Ass'y	B1804300	Pressure Roller Ass'y
AF031046	Feed Roller – Manual Feed	AE020155	Pressure Roller:DIA42
AF030049	Pick-up Roller		
AF032046	Separation Roller – Manual Feed		
G0802900	Torque Limiter – Manual Feed		
AF031049	Feed Roller		
AF032049	Separation Roller		
B1802900	Torque Limiter		
AZ320143	Power Pack:CAC/DC:BDC		
B1805130	PCB:DRB		
AZ240106	Power Supply Unit:Main:Dom/NA		
G1315051	PCB:BCU		
G1315701	PCB:JP4:Assy		
AW100102	Thermistor: Fusing		
B1804066	Thermostat: Welding		
AX430146	Heater:120V:200W		
AX440231	Heater:120V:1100W		
B1804246	Thermofuse: Ass'y		
AW100103	Thermistor: Pressure		
AD042081	Cleaning Blade: Ass'y		
G1311854	Imaging Unit		
AX060286	Polygon Mirror Motor		
B1803301	Air Pump:Toner Supply:Ass'y		
G0803301	Air Pump:Toner Supply		

G130/G131 Product Support Guide

Firmware Structure

Printer Version (G 130/131)			
Type of Firmware		Firmware File Name	Updated Component
Engine	Engine Main	G130_engine_vxxx.exe	BCU Flash ROM
	MUSIC	G130_music_vxxx.exe	BCU MUSIC CPU
	DSP	G130_dsp_vxxx.exe	BCU DSP CPU
Controller	NIB	G130_pnib_vxxx.exe	SD Card
	System	G130_psystem_vxxx.exe	SD Card
	Printer Application	G130_printer_vxxx.exe	SD Card

Suggested Settings at Installation

SP Mode	Item	Setting
SP 5-930-1	Meter Charge	0=>1
SP 5-930-3	Menu	1 (keep at default)
SP 5-045	Counter Method	1(prints) or 0 (developments) [either one]
SP 5-104	Double Count	0=>1 (double count)

NOTE: SP5-930-1 (Meter Charge) must be set to ON if the maintenance contract is based on the meter reading or if it has a volume limit.

Branding

Branding is required as the machine is shipped as a generic version.

Ricoh version machines: You must adhere the model label (provided) to the front cover.

Savin/Gestetner/Lanier version: You must adhere the model label (provided) to the front cover and set the Plug and Play name with SP 5-907-1. Set the data to 2 or 3 for Savin, 4 or 5 for Gestetner and to 10 or 11 for Lanier.

NOTE: Pre-Configured models have an instruction sheet for Technicians packed in the carton box.

G130/G131 Product Support Guide

G421 Scanner Option

Configuration

Product Configurations

Main Unit



Include with USB card USB cable

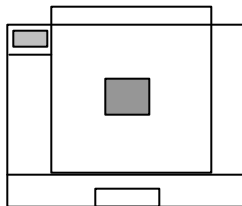
Options

- IPU
- Wireless LAN (IEEE802.11b)
- Rack

Interface

USB (for printer)*standard
10/100BASE-T/TX (for printer and scanner)*standard
Wireless LAN (IEEE802.11b (for scanner)*option

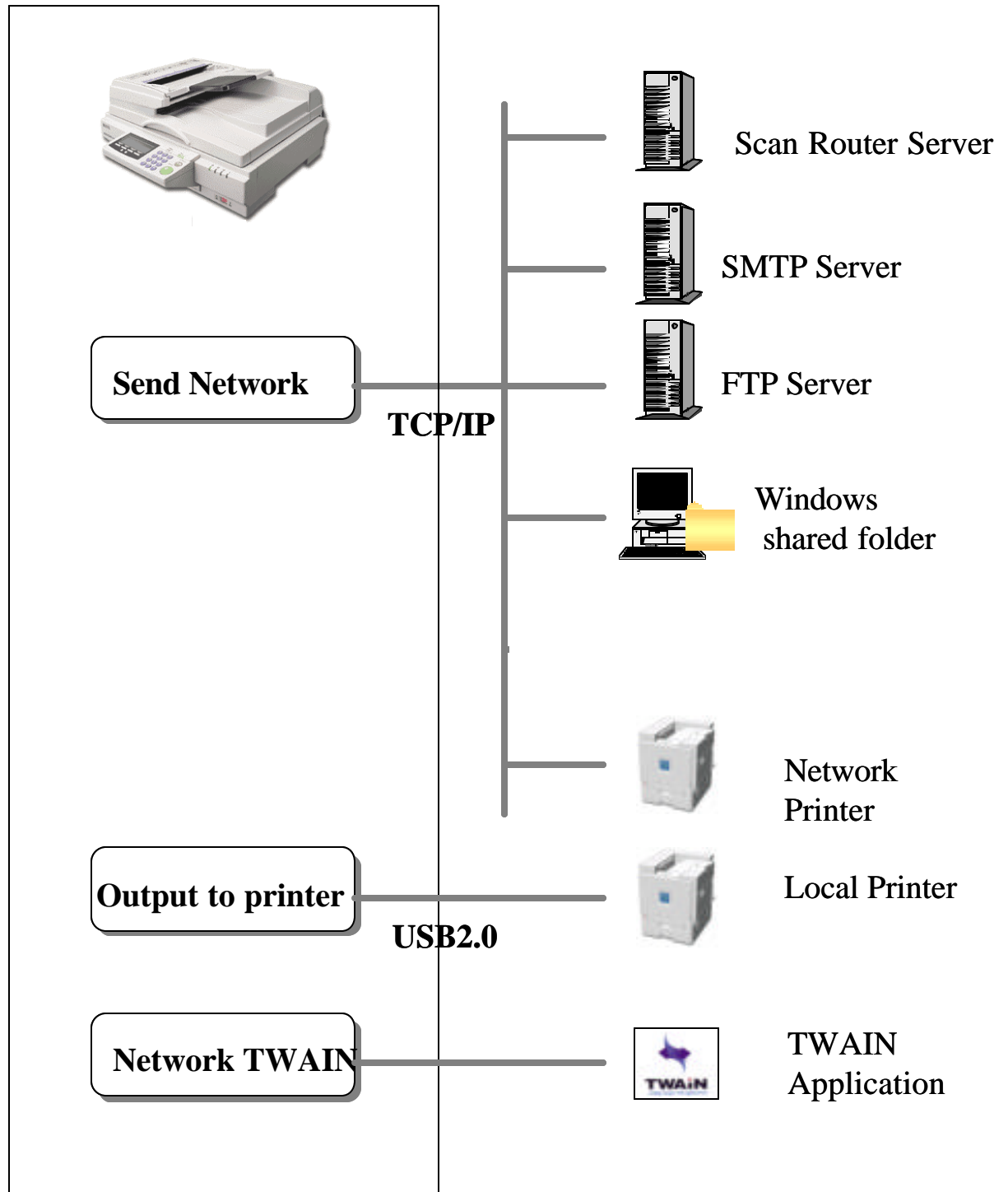
Compatible printers



G106, G071, G091

G130/G131 Product Support Guide

3-2. System Configurations



G130/G131 Product Support Guide

Specifications

Basic Mainframe Specifications

Scanner Type: Flatbed color image scanner

ARDF: Sheet pass through type (with Mechanical Auto Reverse Duplex function)

Scanning area: Max.: Contact glass mode 300 x 432 mm
 ARDF mode: Simplex, B/W Binary 297 x 2000 mm
 Simplex, B/W Gray Scale 297 x 630 mm
 Simplex, color 297 x 630 mm
 Duplex 297 x 432 mm
 Mini.: Contact glass mode: 5 x 5 mm
 ARDF mode: 105 x 128 mm

<Notes>

In case of using Twain driver, maximum size is 297 x 432mm and minimum size is 10 x 10mm.

Resolution: Optical 600dpi
 Output 100 / 200 / 300 / 400 / 600dpi
 100 – 1200 dpi / 1dot step

<Notes>

In case of using Twain driver, you can specify 100 – 2400 dpi as resolution.

Scanning Speed:

<Simplex>

	B/W Binary		B/W 8 bit		PPM Color	
	200dpi	600dpi	200dpi	600dpi	200dpi	600dpi
A4 Portrait	30	10	22	3	10	1.3
A4 Landscape	38	13	22	3	11	1.3
Letter Portrait	31	10	22	2.9	10	1.3
Letter Landscape	37	13	22	2.9	11	1.3
A3	23	8	12	1.5	5	0.7

<Duplex>

B/W: 12 ipm / A4 portrait, 200 dpi, binary

Color: 3 ipm / A4 portrait, 200 dpi, color

Warm-up time: less than 40 sec

ADF Capacity: 50 sheets

Output Capacity: 50 sheets

Paper weight: Simplex: 40.7 – 128.0 g/m²
 Duplex: 52.3-104.7 g/m²

Memory: 128 MB

G130/G131 Product Support Guide

Compression Method MH, MR, MMR, JPEG

Interface: For scanner: 10 / 100 BASE-TX (Standard), IEEE802.11b (Option)
For printer: USB 2.0, 10 / 100 BASE-TX (Standard)
SD slot (Standard)

Physical Specifications

Power Requirements 120V/60Hz, 220-240V/50/60/Hz
Power Consumption Max. less than 140W
Dimensions: 590 x 647 x 265 mm
Weight: less than 29kg
Sound Power Level: 61dB or less
*Measured by Ricoh Standard methodology

Safety Standard US version UL60950
EU version EN60950

EMI US version FCC Part 15 Class B
EU version EN55022 Class B

Reliability Specifications

Average scanning volume: 4,000 pages per month
Maximum scanning volume: 10,000 pages per month
Power On time 160 hours per month

Special Tools

The following special tools should be prepared for maintenance of the new model in the field:

Unique or Common:
U: Unique
C: Common

Item	Part Number	Description	Q'ty	Unique or Common
1	A0069104	Scanner Positioning Pin (4pcs/set)	1	C (Russian-SC)
2	G4129310	Ricoh Gray Scale	1	C (Russian-SC)
3	G4049004	RS-13 chart	1	C (Russian-SC)
4	B6455010	SD Card	1	C (Belini-C2)
5	B6456700	PCMCIA Card Adapter	1	C (Belini-C2)
6	B6456800	USB Reader/Writer	1	C (Belini-C2)
7	-	Service tool (software)	1	U

G130/G131 Product Support Guide

EDP Codes

Model Name	EDP	Product Code
Image Scanner IS300e	402252	G421-17

Option EDP Codes

Product		Option IPU	Rack	Wireless LAN
Model Name		Image Processing Unit Type A	Table Type 7100	IEEE802.11b Interface Unit Type A
Ship To		RC /RE /RA	RC /RE //RA	RC
Product Site		Japan (Ricoh Hadano)	Japan	Japan
Product Code		G514-21	G948-17	B373-17
EDP Code		400306	402267	402001
Weight (Kg)	Net	0.152 kg		
	Gross	0.165 kg	32.0 kg	0.3 kg
Packing Method		CTN	CTN	CTN
Individual Ctn Packing (mm) W x D x H	W	230	1190	224
	D	157	850	156
	H	52	140	52
Measurement (M3)		0.00187772	0.141610	0.001901
Outer Ctn Packing (mm) W x D x H	W	N/A	N/A	N/A
	D	N/A	N/A	N/A
	H	N/A	N/A	N/A
Number of units		No Outer Carton	No Outer Carton	No Outer Carton
Measurement (M3)		N/A	N/A	N/A
Remarks		Common with G412		Common with G094/G095 and G081 etc

G130/G131 Product Support Guide

SERVICE TIME ESTIMATION

Installation Times

MAINFRAME

30 minutes

PERIPHERALS

Rack: 20 minutes

IPU: 10 minutes

Wireless LAN: 20 minutes

Major Technical Enhancements

Mainframe

Network Board Standard.

Connectivity

- Support the network functions as follows.
 - Web Status Monitor
 - Scan to E-Mail with LDAP
 - Scan to PC (FTP/SMB)
 - Scan to print

- Option for connectivity.

- IEEE802.11b

Note: The IEEE802.11b card and USB card cannot be used simultaneously. This is because both use the same interface.